

1. A method of obtaining information regarding an environment for an individual, having preferred modalities and engaged in activity, using a programmable device, said method comprising the steps of:

sensing at least one psychomotor behavioral element of the activity engaged by the individual; and

determining the preferred modalities of the individual based on the psychomotor behavioral element of the activity engaged by the individual.

2. The method of Claim 1 further comprising modifying at least one modifiable environmental unit to at least partially conform to the preferred modalities.

3. The method of Claim 2 wherein the environment unit is modified in real-time.

4. The method of Claim 1 further comprising storing the sensed psychomotor behavioral element in a user history.

5. The method of Claim 4 wherein the sensed psychomotor behavioral element is stored in terms of preferred representational geometries via linear algebraic transforms.

6. The method of Claim 1 wherein the step of determining preferred modalities includes determining a preferred combination of modalities and an ordering of modalities by preference thereby further defining a focus of the individual's attention.

7. The method of Claim 6 further comprising the step of modifying the environmental unit to provide content in the environment in the preferred combination of modalities and the order of modalities by preference whereby the combination and the order are placed in at least one respective co-ordinate group of representational geometry to which attention of the individual is drawn, as indicated by the psychomotor behavioral element.

8. The method of Claim 6 further comprising:

defining a psychodynamic and a cognitive behavioral model using the preferred combination of modalities and the order of modalities; and

modifying at least one environmental unit as a function of the psychodynamic behavioral model and the cognitive behavioral model.

9. The method of Claim 6 wherein the combination and order of modalities is calculated by an equation: $\sum_{i=-\infty}^{\infty} ((\sum G_i(\delta x_i/\delta t_i))/(\sum G_i(dx_i/dt_i)))dG_i dt_i \propto \Psi(G)$

10. The method of Claim 1 wherein the environment is multi-dimensional and has a plurality of modifiable environmental units.

11. The method of Claim 1 further comprising

preprogramming the device to monitor the individual for at least one specific types of psychomotor behavioral elements; and

communicating an occurrence of the specific type of psychomotor behavioral element.

12. A programmable apparatus for obtaining information regarding an environment to an individual having preferred modalities, said apparatus comprising:

at least one sensor for sensing psychomotor behavioral activity of the individual;

and

a processing unit connected to the sensor for receiving the sensed psychomotor behavioral activity and calculating the individual's preferred modalities based on the sensed psychomotor behavioral activity.

13. The apparatus of Claim 12 further comprising at least one modifiable environmental unit, modified by at least one instruction from the processing unit to at least partially conform the environment to the calculated preferred modality of the individual.

14. The apparatus of Claim 12 further comprising a memory device to store sensed psychomotor behavioral activity of the individual.

15. The apparatus of Claim 14 wherein the processing unit uses stored sensed psychomotor behavioral activity of the individual to refine the preferred modality calculation.

16. The apparatus of Claim 13 wherein the preferred modalities are calculated while sensing psychomotor behavioral activity and concurrently used for modifications to the environmental units.

17. The apparatus of Claim 13 wherein the sensor includes at least one input device for a computer and the modifiable environmental unit includes at least one output device.

18. The apparatus of Claim 12 further comprising an indicator connected to the processing unit, wherein the processing unit is preprogrammed to monitor for specific psychomotor behavioral activity and the indicator indicates at least one of the group consisting of:

a match between the sensed psychomotor behavioral activity and the specific psychomotor behavioral activity; and

a nonmatch between the sensed psychomotor behavioral activity and the specific psychomotor behavioral activity.